36" ROTARY MOWER

36" ROTARY MOWER
MFG. NO. 1690023

OPERATOR'S MANUAL

FORM -- 1651316
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751

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SAFETY PRECAUTIONS TO PROTECT YOURSELF AND OTHERS

Read and become familiar with the owner's manual for your tractor and the mower before operating the mower.

Do not allow anyone to use the mower unless they have been instructed in how to operate it safely.

Never attempt to adjust, repair, or service the mower while the tractor engine is running.

Do not allow others near the mower while it is operating.

Stay clear of the drive belt, pulleys, and mower blades when the tractor engine is running.

Be sure the mower blades and drive belt have stopped turning before attempting to adjust, repair, or service the mower. CAUTION: THE BLADES MAY CONTINUE TO ROTATE SEVERAL SECONDS AFTER THE CLUTCH HAS BEEN DISENGAGED OR THE ENGINE SHUT OFF.

Clear the work area of objects which may be picked up and thrown.

If the mower blade should strike a solid object, disengage the mower drive and shut the tractor engine off immediately. Check the mower blades for damage or loose blade mounting bolts.

Disengage power to the mower and stop the engine before leaving the operator's position.

Mow only in daylight or good artificial light.

Check the blade mounting bolts for proper tightness whenever the mower has been removed from the tractor.

Use caution when mowing on a sloping surface.

ROTARY MOWER

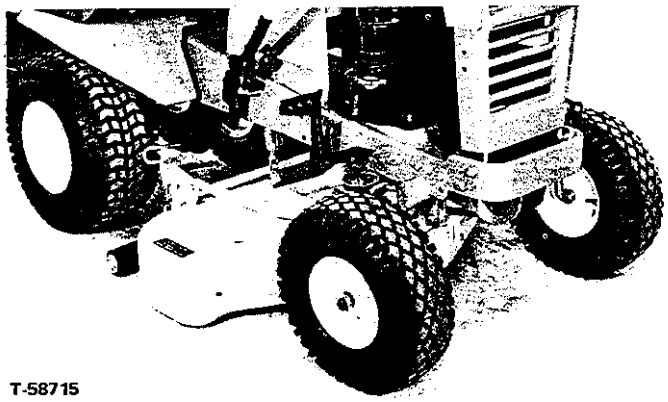

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FIGURE 1 -

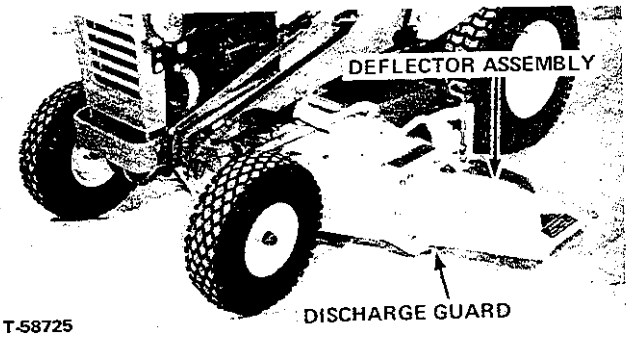

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FIGURE 2 -

OPERATION

BEFORE STARTING ENGINE

1. Read this mower section and the tractor section of this manual very carefully. Be sure you are familiar with the safety precautions, controls and operating instructions.

2. Check the mower carefully to be sure it is properly installed.

CAUTION: NEVER OPERATE THE MOWER unless the discharge guard and either the deflector assembly or the vacuum collector adapter are fastened securely in place (Figure 2).

3. Check the condition of mower blades. Keep them sharp and in balance.

4. Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blade.

5. Determine the best method of mowing according to the dimensions, terrain and obstructions of the lawn.

6. Be sure that mower is properly leveled and adjusted as outlined in adjustment section.

7. Refer to the tractor part of manual for starting engine.

ENGINE SPEED

Engine speed should normally be operated at 2/3 to full throttle when mowing. When grass is wet or over 3 inches high, engine should be run at full speed for best results.

TRANSMISSION GEAR SELECTION

All three forward speeds may be used for mowing under some conditions. Third speed should only be used in smooth level lawns with moderate to light grass crop. It is necessary to depress clutch pedal and stop tractor before shifting. Always select a forward speed that is slow enough to assure that you can properly and safely control the tractor over the ground conditions encountered.

CAUTION: When operating the mower for first time put the 3 speed transmission in first gear until you become acquainted with the controls and operation of the tractor and mower.

MOWING PATTERN AND TIPS

For the first use of the mower choose a smooth level area. Cut long straight strips overlapping slightly. After becoming familiar with the operation proceed to inclined or rougher ground.

The size and type of area to be mowed determines the best mowing pattern to use. Obstructions such as trees, fences, and buildings must also be considered. In most cases, making one or two passes in a counter-clockwise direction around the outside of the area to be mowed is advisable to keep cut grass off of fences, walks, etc. The remainder of the mowing should normally be done in a clockwise direction so the clippings are dispersed on the cut area.

Always keep the right side of mower toward trees, posts, or other obstacles on the first pass around obstacle.

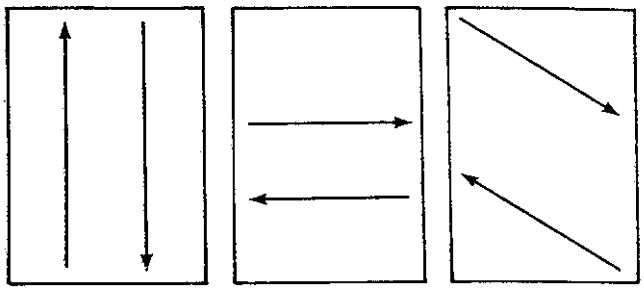
On moderate size, frequently mowed lawns where grass is light and dry it is sometimes practical to mow in a counter-clockwise direction so that clippings are thrown toward the center of the lawn and concentrated for easy pickup and removal.

Most lawns should be mowed to keep the grass approximately two to three inches high. Best results are obtained by cutting often and not too short. To keep a green lawn, never mow more than one third off the height of the grass or a maximum of one inch in one mowing. For extremely tall grass, set the cutting height at maximum for the first mowing, then reset to the desired height and mow again. Allow the grass to grow to three inches, then cut off only the top inch.

On thick or springy grass or soft ground, the mower rollers may sink into the ground giving too low a cut. Adjust the cutting height to get the desired height of cut.

For best appearance, grass should be cut in the afternoon or evening when it is free of moisture.

Where possible change patterns occasionally to eliminate matting, graining and a corrugated appearance. See diagrams below.



CAUTION: DO NOT WORK around mower housing area until you are certain that the mower blades have stopped rotating.

Heed the **CAUTION SIGN**, the **DANGER SIGN**, and the **WARNING SIGN** located on the mower housing. Make certain the discharge guard and either the deflector assembly or the vacuum collector adapter are securely in place before operating the mower.

CAUTION: ALWAYS disconnect the mower drive clutch and stop engine before leaving the tractor seat. If leaving the tractor and mower unattended, remove the ignition key.

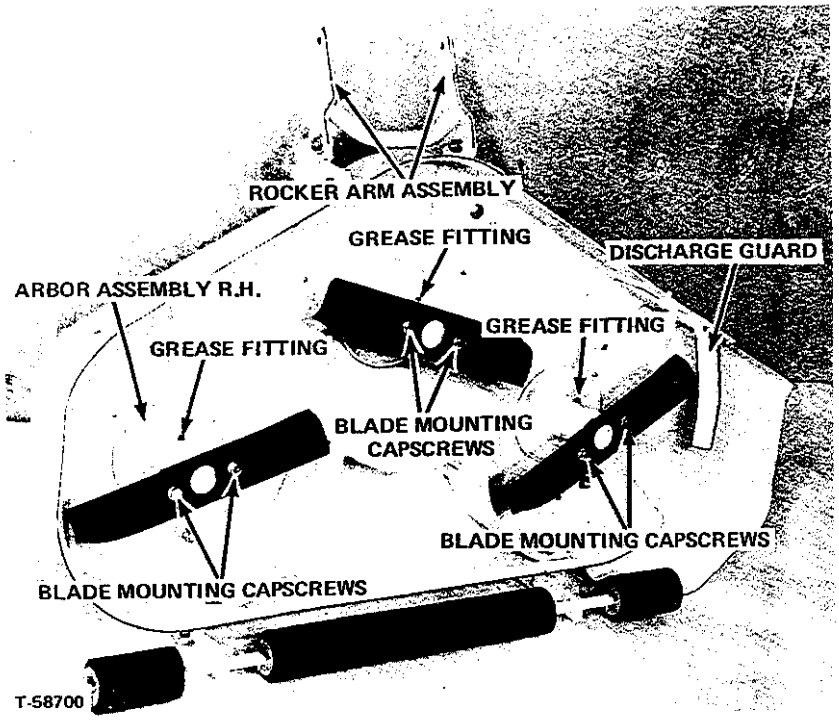


FIGURE 3 -

GREASE FITTINGS (Figure 3)

The grease fittings in each of the arbor assemblies, (Figure 3) should be given about 5 shots of No. 2 lithium base gum grease every 50 hours of operation and at the end of the cutting season each year.

Do not over-grease and make sure that any excess grease forced out of the mower arbor assemblies does not get on the drive belts.

BLADE REPLACEMENT

Do not attempt to remove the blades unless you have the correct size box or socket wrench to fit the blade mounting capscrews. Remove mower from tractor and turn it over to expose the blades (Figure 3).

To remove the blades securely wedge a block of wood between the blade and the housing in such position that it will hold the blade safely while loosening or tightening the blade mounting capscrews.

Do not attempt to remove the arbor assemblies, take out blade mounting capscrews only.

CAUTION: ALWAYS HANDLE THE BLADE WITH CARE TO AVOID INJURY.

To sharpen blades yourself clamp blade securely in a vise and use a large mill file along the original bevel. File to a sharp edge.

To balance blade, place a small rod through center hole to see if blade rests with both ends balancing evenly. File heavy side of blade until it balances out even.

NOTE:
Dealer is equipped to sharpen and balance your mower blades. For expert service and quality parts, see your authorized Dealer.

Carefully clean the blades and arbors. Install the new or sharpened blades with the lift tabs toward the top and tighten the capscrews securely. Use a block or wedge to keep the blade from turning while tightening capscrew.

NOTE: The mower blade retaining capscrews should be torqued to 32 foot pounds.

Rotate the blades slowly by hand to see that they clear the housing all around and that the blade tips are running true.

BELT REPLACEMENT

To replace the mower drive belt stop the engine, remove ignition key and fully disengage the PTO drive clutch. Remove the belt from the drive pulley on the engine and from the driven pulley on the mower. Slip belt out of idler pulleys past the belt guides. Reinstall new belt in reverse order.

To replace the arbor drive belt remove the mower from the tractor then remove the arbor belt cover right hand and left hand by removing bolts that hold them to mower deck and the bolts that hold the lift chain bracket to the mower.

On the 36" mower detach the rear ends of both leveling bars and lift as shown in Figure 5.

Unhook idler spring from idler and remove belt from arbor pulleys. Install new belt as shown in Figures 4 and 5 and reattach idler spring.

Reinstall arbor belt covers right hand and left hand, and hook up leveling bars.

ADJUSTMENTS

LEVELING THE MOWER (Figure 4)

Check the tractor tire pressures and make them equal on right hand and left hand side. Set mower to normal cutting height.

With the tractor and mower on a level surface rotate the three blades so that the blade tips are pointed toward the front of the mower. Measure the distance from the front tip of the center blade to the ground. Then measure the height of the rear tips of side blades. The front tip of center blade should be 1/4 inch higher than rear tip of side blades. The rear tips of right hand and left hand side blades should be the same distance above ground.

To adjust, turn the adjusting yokes on the rear end of leveling bars on the 36" mower

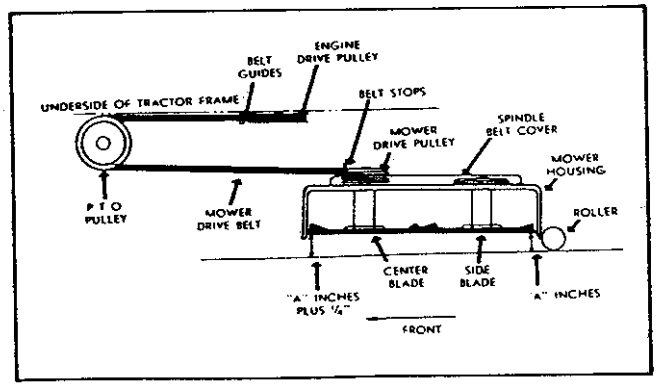


FIGURE 4.

Turn the yoke on both bars to obtain the 1/4 inch difference in height from front tip to back tip. Turn only one yoke to obtain same height of the side blades for sideways leveling.

CUTTING HEIGHT (Figures 4 and 5)

Cutting height can be selected by adjusting the height control lever up or down. Turn the lever clockwise to raise the blades and counter-clockwise to lower .

A cutting height of approximately 2 inches is average and normal. The lower settings should be used only for smooth lawns where short grass is desired. The higher settings are for rougher areas or for very high grass.

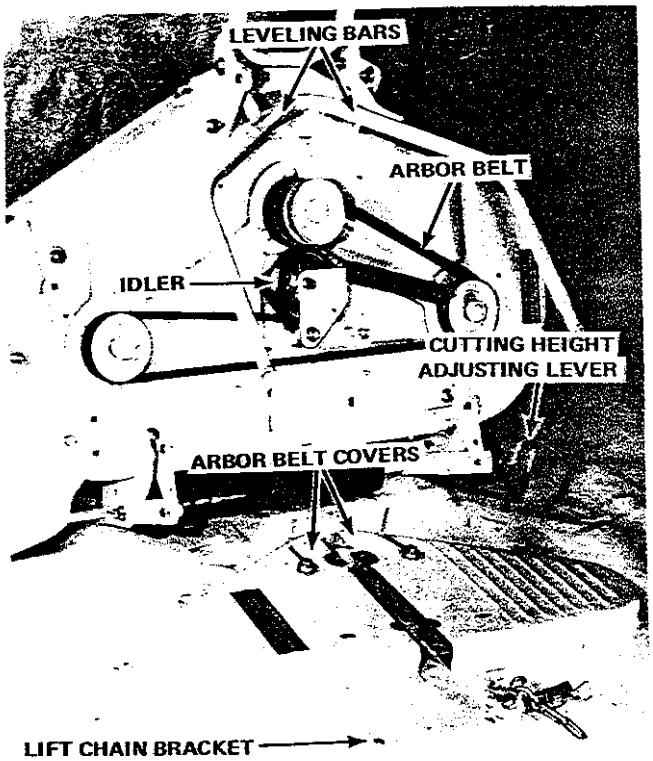


FIGURE 5.

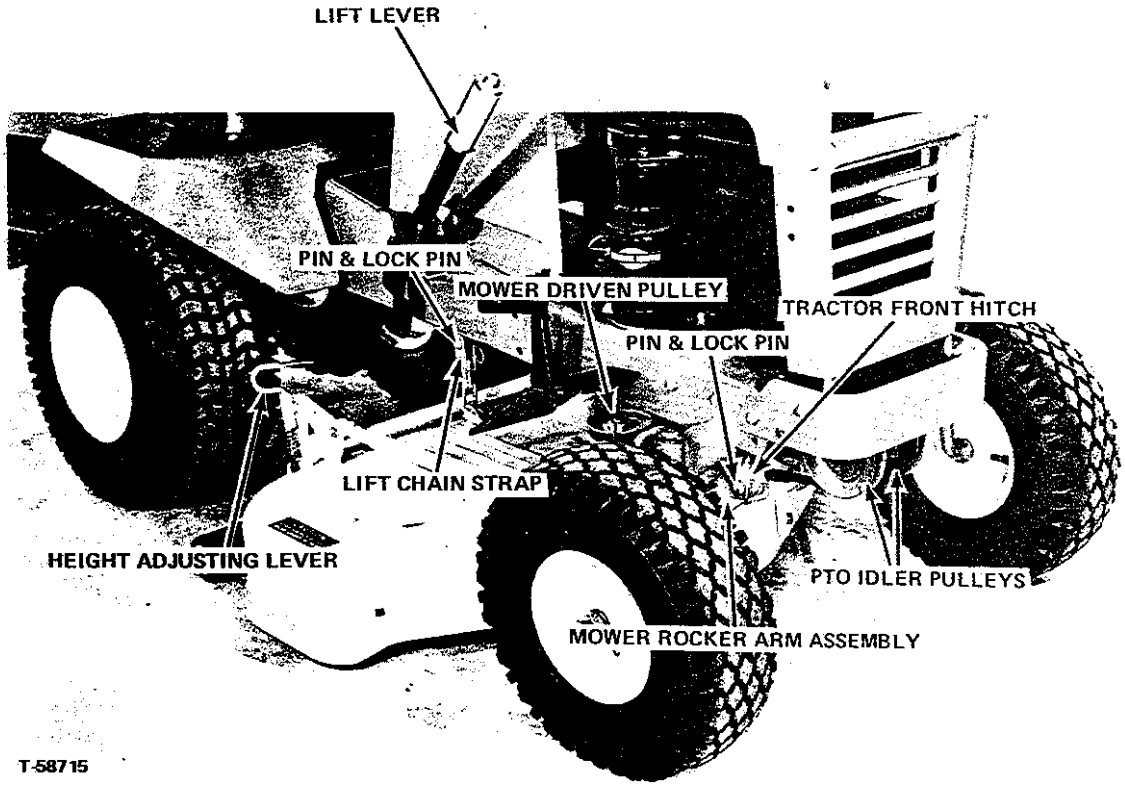


FIGURE 6.

ATTACHING THE MOWER

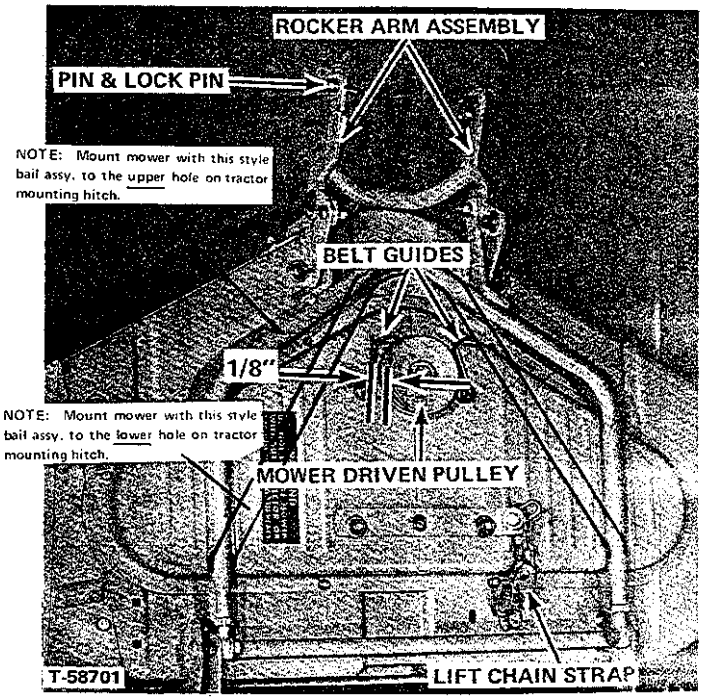
1. See Figures 6,7,8,10. Park the tractor on level ground with the mower positioned on either side. Turn the front wheels fully away from the mower to give clear access to the tractor under side. Slide the mower underneath the tractor, then straighten the front wheels. Attach the mower rocker arm assembly to the tractor and pin through bottom set of holes on tractor hitch (See Figure 7).

2. Move the lift lever forward and attach the lift chain strap to the inner lift arm with pin and lock pin (Figure 6.)

3. Disengage the tractor front power take off lever, (Figure 9), by pulling it all the way to rear. Place the mower drive belt around the mower drive pulley on the engine (Figure 8), then over the PTO idler pulleys at the front end of tractor. Put the free end of mower drive belt back over the mower driven pulley, (Figure 6). If the idler pulleys have belt guides position them as shown in (Figure 10)

NOTE: Belt must be powdered before operation (Any type of powder can be used).

NOTE: Check to see that the mower is leveled according to instruction on page 5 figure 4, before mower is operated to assure proper mower drive belt operation.


ROCKER ARM ASSEMBLY
PIN & LOCK PIN
NOTE: Mount mower with this style bail assy. to the upper hole on tractor mounting hitch.
BELT GUIDES
1/8"
NOTE: Mount mower with this style bail assy. to the lower hole on tractor mounting hitch.
MOWER DRIVEN PULLEY
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LIFT CHAIN STRAP

FIGURE 7.

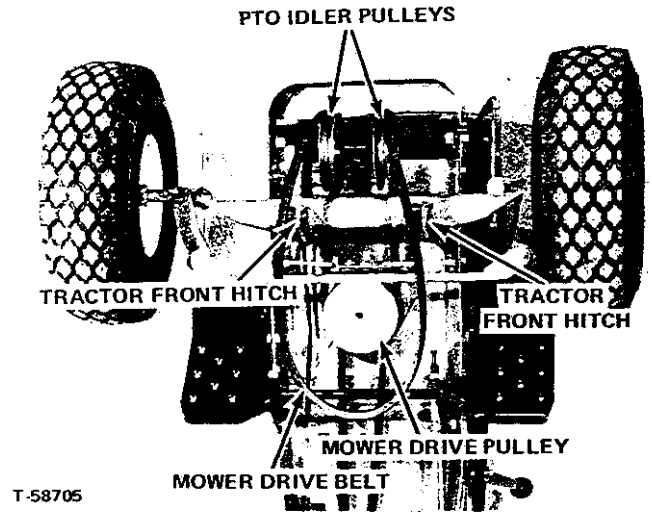

FIGURE 8.

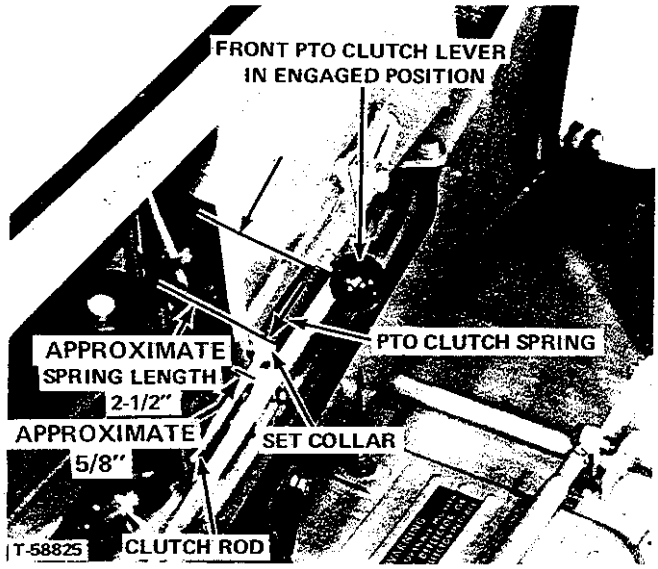

FIGURE 9.

4. Engage the power take off by pushing the PTO control lever to the forward position to put tension on belt. Swing the two belt guides forward at mower driven pulley and adjust them to within 1/8 inch of the belt (Figure 7).

5. Adjust set collar on PTO clutch rod to provide 5/8" between the set collar and rod guide when PTO belt is on and clutch lever in the forward, fully engaged, position (Figure 9).

   NOTE: This adjustment should be made with mower at desired cutting height.

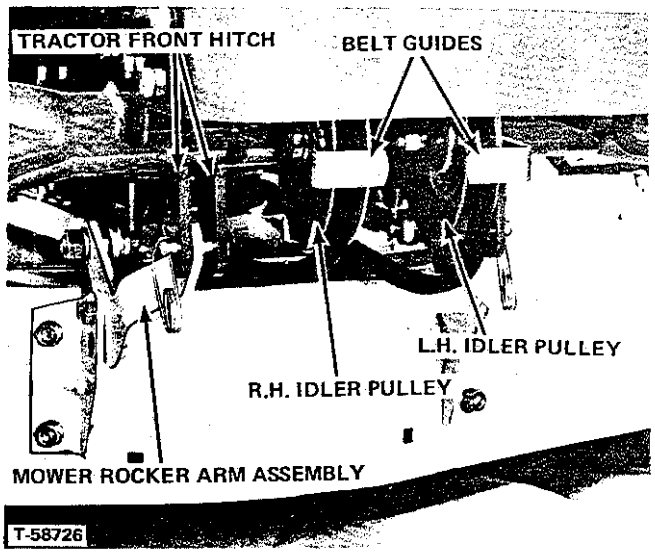

FIGURE 10.

REMOVING MOWER FROM TRACTOR

1. Position tractor and mower on a level solid surface with space for mower at side of tractor.

2. With the PTO lever disengaged remove mower drive belt from mower drive pulley on engine and from PTO idler pulleys.

3. Lower the mower by pushing lift lever forward. Remove lock pin and pin from lift chain strap and lift arm (Figure 2). Store pin and lock pin in chain strap and leave with mower.

4. Disconnect the mower rocker arm assembly from the tractor front hitch and lower the mower to the ground. Store the pins and lock pins in the mower rocker arm assembly (Figure 10).

5. Slide mower from under tractor.

OUT OF SERVICE PROTECTION (STORAGE)

1. Remove the mower from the tractor. See above.

2. Use water under pressure to thoroughly clean the mower to remove any buildup of grass clippings and dirt under the mower deck.

3. Cover any area where paint has been worn or chipped away with paint or a light coat of oil.

4. Lubricate each arbor grease fitting with about 5 shots of No. 2 lithium base gum grease.

5. Store the mower in a dry place.

SETTING UP INSTRUCTIONS

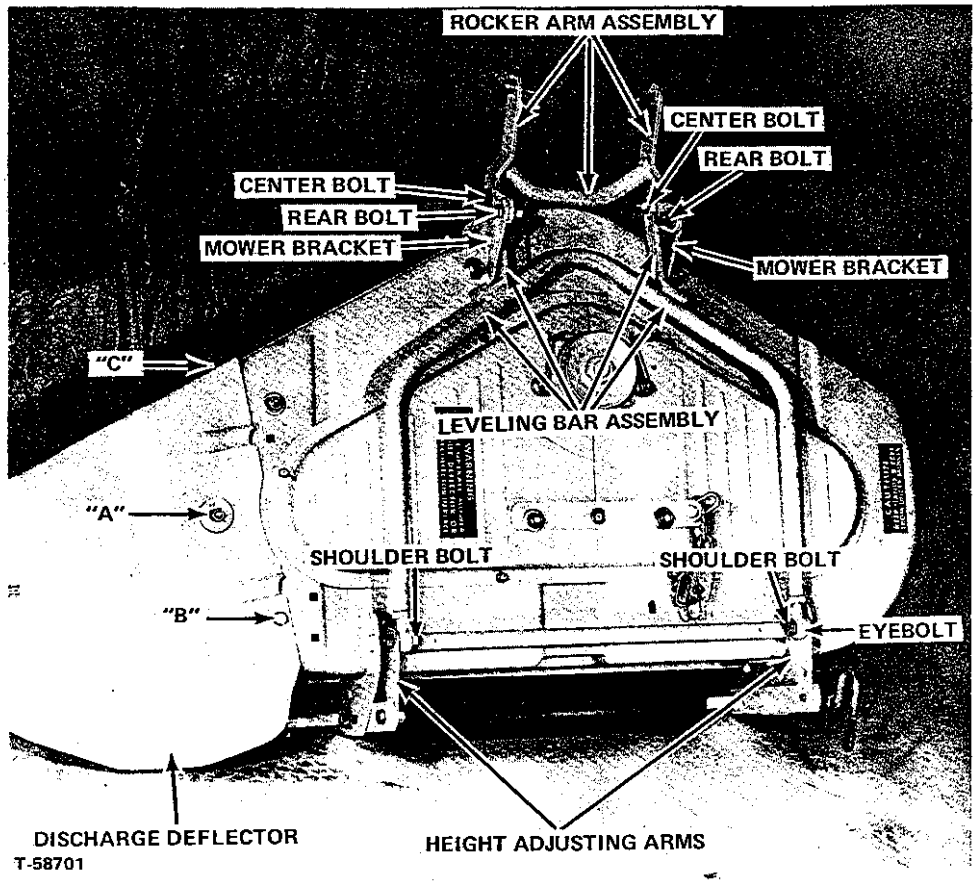

FIGURE 11.

1. Attach the rear hole in the rocker arm assembly to the mower brackets with rear bolts, spacers, flat washers, lockwashers and nuts, and attach the center hole of the rocker arm assembly to the front holes in the leveling bar assembly with center bolts, spacers, flat washers, lockwashers and nuts as shown in Figure 12.

2. Make sure that eyebolts in the rear of the leveling bar assembly are secured to the height adjusting arms with shoulder bolts (Figure 12).

3. Install the discharge deflector on the left hand side of mower housing by sliding notch on front side of deflector between large washer on bolt "C" and the mower housing. Also install carriage bolt and large flat washer, lockwasher and nut at "A" and lockwasher and capscrew into cage nut at "B". Tighten bolts securely.